



TG4040-2K

Thermally Conductive 2-Part Liquid Gap Filler

Version 1.130819

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TG4040-2K is a thermally conductive, two part, liquid gap filler which can be cured in place for optimum performance and ease of manufacture. TG4040-2K can be used to offer optimum thermal transfer for fragile components of where surface topography precludes the use of conventional materials. Once cured, TG4040-2K offers reliable thermal management and prevents many of the issues associated with stresses due to CTE mismatches.

Features

- Smooth surface & low contact resistance
- Usable over a wide temperature range
- Electrical insulation
- High breakdown voltage
- Complies with UL standards

Applications

- Automotive electronics
- Fibre optic telecommunications equipment
- Consumer electronics

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG4040-2K	Unit	Tolerance	Test Method
Colour	Blue	-	-	Visual
Thermal Conductivity	3.5	W/mK	-	ASTM D5470
Volume Resistivity	10 ¹²	Ohm-cm	-	ASTM D257
Density	3.0	g/cm ²	-	ASTM D792
Operating Temperature	20 to 30	°C	-	-
Working Temperature	-50 to 200	°C	-	-
Working Temperature (short term)	288	°C	-	-
Flame Rating	V-0	-	-	UL 94
Hardness	40	Shore 00	-	ASTM D2240
Viscosity	200	pas	-	ASTM D2196
Pot Life @ 25°C	60	Minutes	-	-
Cure Time @ 25°C	90-180	Minutes	-	-
Cure Time @ 100°C	3	Minutes	-	-
Cure Time @ 150°C	1	Minutes	-	-

Reliability

Thermal Impedance	Initial	250 hr	500 hr	1000 hr
125°C Aging	0.17	0.19	0.18	0.18
85°C / 85% RH	0.17	0.19	0.18	0.19

Storage

TG4040-2K has a shelf live of 12 months from the date of manufacture., as indicated by the lot number, when stored in the original, unopened container.

* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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